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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/298,910      | 04/26/1999  | NORIYOSHI SONETAKA   | Q54131              | 2573             |

7590 01/15/2002

SUGHRUE MION ZINN MACPEAK & SEAS  
2100 PENNSYLVANIA AVENUE N W  
WASHINGTON, DC 200373202

EXAMINER

WEST, LEWIS G

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2681

DATE MAILED: 01/15/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.



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| 09/298,910      | 04/26/99    | SONETAKA             | N Q54131            |

WM02/1010  
SUGHRUE MION ZINN MACPEAK & SEAS  
2100 PENNSYLVANIA AVENUE N W  
WASHINGTON DC 20037-3202

EXAMINER

WEST, L

| ART UNIT | PAPER NUMBER |
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2681

DATE MAILED:

10/10/01

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Commissioner of Patents and Trademarks

# Office Action Summary

Application No.

09/298,910

Applicant(s)

SONETAKA, NORIYOSHI

Examiner

Lewis G. West

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2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2001.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 7-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6. 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 7 and 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Berry et al.

3. Regarding claim 7, Berry discloses a radio access system comprising: means producing dialing signals; and a base station in radio communication with said means for producing dialing signals, said base station including means for deciding whether a dialing signal represents a final digit of a dialed telephone number or not. (col. 6 line 8-col. 7 line 5)

4. Regarding claim 10, Berry discloses the limitations of claim 7, as well as a telephone dial pad with keys for producing dialing signals, a dialing signal being generated when a key of said dial pad is pushed. (col. 6 line 8-col. 7 line 5)

5. Regarding claim 11, Berry discloses the limitations of claim 7, as well as said means for deciding comprising a means for counting said dialing signals. (col. 7 lines 43-54; col. 8 lines 42-50)

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 8, 9 and 12-15 rejected under 35 U.S.C. 103(a) as being unpatentable over Berry.

8. Regarding claim 8, Berry discloses a radio access system comprising: means for producing dialing signals, a base station in radio communication with said means for producing dialing signals, said base station including means for deciding whether a dialing signal represents a final digit of a dialed telephone number or not. (col. 6 line 8-col. 7 line 5) Berry does not directly disclose this function in a base station control station, however he does disclose that this processing may take place in the base station controller included in the base station. (col. 6 line 8-col. 7 line 5) Berry also discloses that the base station controller may be a station separate from the base transceiver stations. (col. 1 lines 46-54) Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention that the means for producing and detecting dialing signals could be moved to a base station control station in order to centralize processing functions of the system.

9. Regarding claim 9, Berry discloses the limitations of claim 7, as well as a base station control station in radio communication with said means for producing dialing signals, said base station control station including means for deciding whether a dialing signal represents a final digit of a dialed telephone number or not. Berry does not directly disclose this function in a base station control station, however he does disclose that this processing may take place in the base station controller included in the base station. (col. 6 line 8-col. 7 line 5) Berry also discloses that the base station controller may be a station separate from the base transceiver stations. (col. 1 lines 46-54) Therefore it would have been obvious to one of ordinary skill in the art at the time

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of the invention that the means for producing and detecting dialing signals could be moved to a base station control station so that remote stations may be generic to accommodate different systems and any upgrades may be done to the base station only. (col. 6 line 55– col. 7 line 5)

10. Regarding claim 12, Berry discloses the limitations of claim 8, as well as a telephone dial pad with keys for producing dialing signals, a dialing signal being generated when a key of said dial pad is pushed; . (col. 6 line 8–col. 7 line 34) and wherein said means for deciding comprises an inter-digit timer and a means for determining that a dialing signal has not been received for a predetermined period of time. (col. 8 lines 10–20)

11. Regarding claim 13, Berry discloses the limitations of claim 8, as well as said means for deciding comprising a means for counting said dialing signals. (col. 7 lines 43–54; col. 8 lines 42–50)

12. Regarding claim 14, Berry discloses the limitations of claim 9, as well as a telephone dial pad with keys for producing dialing signals, a dialing signal being generated when a key of said dial pad is pushed; (col. 6 line 8–col. 7 line 34) and wherein said means for deciding comprises an inter-digit timer and a means for determining that a dialing signal has not been received for a predetermined period of time. (col. 8 lines 10–20)

13. Regarding claim 15, Berry discloses the limitations of claim 9, as well as said means for deciding comprising a means for counting said dialing signals. (col. 7 lines 43–54; col. 8 lines 42–50)

### *Conclusion*

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hamilton-Piercy et al. also shows a communication system with distributed base

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station transceivers and a central base station control station for processing. Lee et al. shows another dialing method in a wireless system.

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

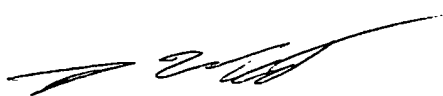
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 703-308-9298. The examiner can normally be reached on Monday-Thursday 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 703-305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

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Lewis West  
(703) 308-9298  
October 2, 2001



DWAYNE BOST  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600